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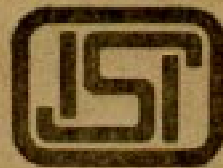


IS : 11529 - 1986

(Reaffirmed 2012)

Indian Standard
SPECIFICATION FOR
LEATHER CHECK STRAPS FOR LOOMS

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR LEATHER CHECK STRAPS FOR LOOMS

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Peass Industrial Engineers Pvt Ltd, Navsari
Office of the Textile Commissioner, Bombay

(Continued on page 2)

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(Continued from page 1)

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(Textile Division), Gwalior
Victoria Jubilee Technical Institute, Bombay
Mafatlal Engineering Industries Ltd, Bombay

Indian Standard

SPECIFICATION FOR LEATHER CHECK STRAPS FOR LOOMS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 6 January 1986, after the draft finalized by the Cotton Weaving Machinery Components Sectional Committee had been approved by the Textile Division Council.

0.2 This standard is based on the manufacturing practices followed in the country in this field.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies the manufacturing procedure and the requirements for leather check straps for use in loom.

2. TERMINOLOGY

2.1 For the purpose of this standard the definitions given in IS : 1640 - 1960† shall apply.

3. MATERIAL

3.1 The raw material shall be wet-salted or freshly-slaughtered hide of buffalo, ox or cow of good substance free from flay cuts, putrefaction warble holes, etc.

* Rules for rounding off numerical values (*revised*).

† Glossary of terms relating to hides, skins and leather.

4. TREATMENT OF RAW HIDE

4.1 Tanning — Only vegetable or synthetic tanning materials shall be used. Mineral acids shall not be used for plumping hides during pre-tanning stage.

4.1.1 The cut-section of leather shall be smooth indicative of the inside fibres being compact.

4.2 Scouring or Washing — The tanned butts shall be neatly scoured on the grain and flesh sides. These may be skived or shaved on the flesh side to remove all traces of loose fibre.

4.3 Stuffing — The stuffing shall be done with fish oil, tallow, fats or waxes of suitable quality.

4.4 Oiling — The oiling shall be done with vegetable or animal oil of suitable quality.

4.5 Setting — The butts shall be uniformly set during currying to minimize stretch and imparting smooth finish to grain side.

4.6 Seasoning — The seasoning of butts shall be for minimum 8 weeks after completion of stuffing process.

4.7 Stretching — The hide shall be stretched from neck to butt along the back bone line after stuffing and the stretch marks should be cut off.

4.7.1 The damp butts shall be dried in the stretched condition.

4.8 Finishing — The strap butts or bends shall be finished on the flesh and grain sides and the protective grease layers left during seasoning should be removed so as to avoid any damage to the leather surface. The grain side shall not be dope - finished. However, light staining may be resorted to.

5. REQUIREMENTS

5.1 Physical Requirements — The check strap or leather for manufacturing shall meet the following physical requirements :

<i>Sl No.</i>	<i>Characteristic</i>	<i>Requirement</i>	<i>Method of Test Given in</i>
i)	Thickness, mm	4 to 5	LP 1
ii)	Width, mm	25 to 28	LP 2
iii)	Tensile strength, <i>Min</i>	20 594 kN/m ² (210 kgf/cm ²)	} LP 6
iv)	Elongation, percent, <i>Max</i>		
a)	at break	65	
b)	4 hours after load of 6 865 kN/m ² (70 kgf/ cm ²) is removed	5	
v)	Stitch tear strength	1 030 N (105 kgf) per cm thickness	LP 8

IS : 5914-1970*

5.2 Chemical Requirements — The check strap or the leather for manufacturing shall meet the following chemical requirements :

<i>Sl No.</i>	<i>Characteristic</i>	<i>Requirement</i>	<i>Method of Test Given in</i>
i)	Total ash, percent, <i>Max</i>	2.0	LC 3
ii)	Oils and fats, percent	8 to 15	LC 4
iii)	Water soluble matter, percent, <i>Max</i>	14	LC 6
iv)	Insoluble ash, percent, <i>Max</i>	0.5	LC 8
v)	pH of water soluble	4 to 5	LC 18
vi)	Differential number, <i>Max</i>	0.6	} LC 21
vii)	Hide substance, percent, <i>Max</i>	35	
viii)	Degree of tannage	50 to 70	

IS : 582-1970†

5.3 Resistance to Mould Growth — The material shall be given a suitable proofing treatment. No mildew growth shall be observed when the check strap is tested according to IB 2 of IS : 6191-1971‡.

6. MARKING

6.1 Check strap shall be marked with the following :

- Length of roll (m), width (mm) and thickness (mm);
- Name or trade-mark of the manufacturer; and
- Lot number and date of production.

*Methods of physical testing of leather.

†Methods of chemical testing of leather (*first revision*).

‡Methods of micro-biological, colour fastness and microscopical tests for leather.

6.1.1 Each roll may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors may be obtained from the Indian Standards Institution.

7. PACKING

7.1 Check strap roll shall be wrapped in polyethylene film and suitably packed in a box (as specified in the contract).